



STIC Search Report

EIC 2800

STIC Database Tracking Number: 10/616530

TO: James Phan
Location: JEF-3A19
Art Unit : 2873
Friday, October 14, 2005

Case Serial Number: 10/616530

From: Darcy Bates
Location: EIC 2800
JEF- 4B68
Phone: 571-272-2540

darcy.bates@uspto.gov

Search Notes

Re: 10/616,530 US 5,056,892

Attached are search results.

Litigation was found. Docket information and citations are attached.

If more searching or explanation is needed, please let me know.

Thanks,

Darcy Bates

Bates, Darcy

From: Phan, James
Sent: Friday, October 14, 2005 1:40 PM
To: STIC-EIC2800
Cc: Phan, Hien
Subject: Litigation Search for US Pat. No. 5,056,892

Hello

Please conduct a litigation search and provide results for US Patent Number 5,056,892 of which reissue 10/616,530 has been requested.

Thanks,
James Phan


PALM INTRANET

Day : Friday
 Date: 10/14/2005
 Time: 14:24:02

Application Number InformationApplication Number: **10/616530** AssignmentsFiling or 371(c) Date: **07/10/2003**Effective Date: **07/10/2003**Application Received: **07/11/2003**

Patent Number:

Issue Date: **00/00/0000**Date of Abandonment: **00/00/0000**Attorney Docket Number: **15518-002001**Status: **30 /DOCKETED NEW CASE - READY FOR EXAMINATION**Confirmation Number: **1942**Title of Invention: **TOTALLY INTERNALLY REFLECTING THIN, FLEXIBLE FILM**Examiner Number: **68491 / PHAN, JAMES**Group Art Unit: **2872** IFW IMAGEClass/Subclass: **359/831.000**Lost Case: **NO**

Waiting for Response Desc.

Interference Number:

Prior Art FiledUnmatched Petition: **NO**Prior Art FiledL&R Code: Secrecy Code: **1**Third Level Review: **NO**Secrecy Order: **NO**Oral Hearing: **NO**Status Date: **09/21/2005**

Bar Code	PALM Location	Location Date	Charge to Loc	Charge to Name	Employee Name	Location
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Appln Info	Contents	Petition Info	Atty/Agent Info	Continuity Data	Foreign Data	Inventors	Addr
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Search Another: Application# -	<input type="text"/>	<input type="button" value="Search"/>	or Patent#	<input type="text"/>	<input type="button" value="Search"/>
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Attorney Docket #			<input type="button" value="Search"/>		
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Day : Friday
Date: 10/14/2005
Time: 14:24:49

PALM INTRANET

Continuity Information for 10/616530

Parent Data10616530is a reissue of 07472621Which is a continuation of 07218087Which is a continuation of 06903655Which is a continuation in part of 06799869Which is a continuation in part of 06819118**Child Data**

No Child Data

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Data**[Foreign Data](#)[Inventors](#)[Address](#)Search Another: Application# or Patent# PCT / / or PG PUBS # Attorney Docket # Bar Code #

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PALM INTRANET

Day : Friday
 Date: 10/14/2005
 Time: 14:24:52

Application Number InformationApplication Number: **07/472621** AssignmentsFiling or 371(c) Date: **01/30/1990**Effective Date: **01/30/1990**Application Received: **01/30/1990**Patent Number: **5056892**Issue Date: **10/15/1991**Date of Abandonment: **00/00/0000**Attorney Docket Number: **40738USA7D**Status: **150 /PATENTED CASE**Confirmation Number: **8611**Examiner Number: **68491 / PHAN, JAMES**Group Art Unit: **2507**Class/Subclass: **999/286.000**Lost Case: **NO**

Interference Number:

Unmatched Petition: **NO**L&R Code: Secrecy Code: **1**Third Level Review: **NO**Secrecy Order: **NO**Status Date: **08/14/1991**Oral Hearing: **NO**Title of Invention: **TOTALLY INTERNALLY REFLECTING THIN, FLEXIBLE FILM**

Bar Code	PALM Location	Location Date	Charge to Loc	Charge to Name	Employee Name	Location
07472621	28M1	09/29/2005	No Charge to Location	No Charge to Name	NGO,CHAU	JEF/00/C 05

Appln Info[Contents](#)[Petition Info](#)[Atty/Agent Info](#)[Continuity Data](#)[Foreign Data](#)[Inventors](#)[Address](#)**Search Another: Application#****or Patent#****PCT /****or PG PUBS #****Attorney Docket #****Bar Code #**

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Click on the docket number to view the docket. Click on the patent number to view the patent.

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10/14/2005[Update Docket\(s\)](#)[Email Docket\(s\)](#)[Printer Friendly Lis](#)[Email Lis](#)[Customize Lis](#)

Items 1 to 1 of:

	Description	Court	Docket Number	Filed	Date Retrieved
	Minnesota Mining v. Toshiba Corporation, et al	US-DIS-MND	4:95cv911	12/7/1995	8/2/2005

Items 1 to 1 of:

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Docket

US District Court Civil Docket

**U.S. District - Minnesota
(Minneapolis)**

4:95cv911

Minnesota Mining v. Toshiba Corporation, et al

This case was retrieved from the court on Friday, October 14, 2005

Date Filed: 12/07/1995

Class Code: ATYADM, CLOSED, FRC

Assigned To: Judge John R Tunheim

Closed: yes

Referred To: Magistrate Judge John Milton Mason

Statute: 28:1338

Nature of suit: Patent (830)

Jury Demand: None

Cause: Patent Infringement

Demand Amount: \$0

Lead Docket: None

NOS Description: Patent

Other Docket: None

Jurisdiction: Federal Question

Litigants

Minnesota Mining And Manufacturing Company
Plaintiff

Attorneys

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Email: Swbuckingham@mmm.com

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651-351-0632

Toshiba Corporation A Japanese Corporation, Terminated:
04/04/1996
Defendant
[Term: 04/04/1996]

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Fax: 612-288-9696
Email: Florey@fr.com

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Minneapolis , MN 55402
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(612) 335-5070
Fax: 6122889696

Toshiba America Inc A Delaware Corporation, Terminated:
04/04/1996
Defendant
[Term: 04/04/1996]

Toshiba America Information Systems, Inc A California Corporation, Terminated: 04/04/1996
 Defendant
 [Term: 04/04/1996]

Toshiba America Electronic Components, Inc A California Corporation, Terminated: 04/04/1996
 Defendant
 [Term: 04/04/1996]

International Business Machines Corporation A New York Corporation, Terminated: 05/15/1996
 Defendant
 [Term: 05/15/1996]

Documents

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Items 1 to 9 of 9

	Availability	Date	No.	Proceeding Text
<input checked="" type="checkbox"/>	Runner	12/07/1995	1	COMPLAINT - Summons issued. Assigned to Judge X per patent list and referred to Magistrate Judge John M. Mason (7 pgs + attachment) (JMR) (Entered: 12/12/1995)
<input checked="" type="checkbox"/>	Runner	12/07/1995	--	Routed pro hac vice request to admission's clerk on behalf of attys., Mittelberger, Cordray, and Phillips (JMR) (Entered: 12/12/1995)
<input checked="" type="checkbox"/>	Runner	12/07/1995	--	Routed admission request to admission clerk on behalf of attys Bovee and Olson (JMR) (Entered: 12/12/1995)
<input checked="" type="checkbox"/>	Runher	01/03/1996	2	PETITION AND ORDER for admission pro hac vice (Clerk Francis E. Dosal) on behalf of plaintiff by atty., Ralph Anthony Mittelberger (1 pg) (JMR) (Entered: 01/03/1996)
<input checked="" type="checkbox"/>	Runner	01/03/1996	3	PETITION AND ORDER for admission pro hac vice (Clerk Francis E. Dosal) on behalf of plaintiff by atty., Monique Leone Cordray (1 pg) (JMR) (Entered: 01/03/1996)
<input checked="" type="checkbox"/>	Runner	04/04/1996	4	NOTICE OF DISMISSAL as to parties Toshiba America Electronic Components, Toshiba America Info Systems, Toshiba America Inc, Toshiba Corporation without prejudice (2 pgs) (JMR) (Entered: 04/05/1996)
<input checked="" type="checkbox"/>	Runner	04/08/1996	5	ORDER (Judge John R. Tunheim / 4/5/96) re extend time to affect service of the complaint on dft IBM to 5/6/96 (cc: all counsel) (1 pg) (SJH) (Entered: 04/08/1996)
<input checked="" type="checkbox"/>	Runner	05/07/1996	6	ORDER (Judge John R. Tunheim / 5/6/96) extending time to 5/21/96 for service of complaint on deft., IBM (cc: all counsel) (1 pg) (JMR) (Entered: 05/07/1996)
<input checked="" type="checkbox"/>	Runner	05/15/1996	7	NOTICE OF DISMISSAL as to party IBM Corporation without prejudice (2 pgs) (JMR) (Entered: 05/16/1996)

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Terms: [patno=5056892](#) ([Edit Search](#) | [Suggest Terms for My Search](#))

472621 (07) 5056892 October 15, 1991

UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT

5056892

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October 15, 1991

Totally internally reflecting thin, flexible film

REEXAM-LITIGATE:

NOTICE OF LITIGATION

NOTICE OF LITIGATION Minnesota Mining v. Toshiba Corporation, et al, Filed Dec. 7, 1995, D.C. Minnesota, Doc. No. 4-95 civil 911

REISSUE: July 10, 2003 - Reissue Application filed Ex. Gp.: 2873; Re. S.N. 10/616,530 (O.G. March 29, 2005)

INVENTOR: Cobb, Jr., Sanford - St. Mary's Point, Minnesota, United States (US)

APPL-NO: 472621 (07)

FILED-DATE: January 30, 1990

GRANTED-DATE: October 15, 1991

ASSIGNEE-AT-ISSUE: Minnesota Mining and Manufacturing Company, Saint Paul, Minnesota, United States (US), 02

ASSIGNEE-AFTER-ISSUE: June 2, 2003 - ASSIGNMENT OF ASSIGNEES INTEREST (SEE DOCUMENT FOR DETAILS)., 3M INNOVATIVE PROPERTIES COMPANY P.O. BOX 33427 ST. PAUL MINNESOTA 55133-3427, Reel and Frame Number: 14120/0171

July 10, 2003 - ASSIGNMENT OF ASSIGNEES INTEREST (SEE DOCUMENT FOR DETAILS)., 3M INNOVATIVE PROPERTIES COMPANY P.O. BOX 33427 ST. PAUL MINNESOTA 55133-3427, Reel and Frame Number: 14305/0059

LEGAL-REP: Griswold, Gary L.; Kirn, Walter N.; Buckingham, Stephen W.

PUB-TYPE: October 15, 1991 - Utility Patent having no previously published pre-grant publication (A)

PUB-COUNTRY: United States (US)

REL-DATA:

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Syntax Definition

and	and
or	or
w/N	within N words
not w/N	not within N words
pre /N	precedes by N words
w/p	in same paragraph
not w/p	not in same paragraph
w/seg	in same segment
not w/seg	not in same segment
w/s	in same sentence
not w/s	not in same sentence
and not	and not

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Selected file: PLUSPAT

Search statement 1

Query/Command : us5056892/pn

** SS 3: Results 1

Search statement 4

Query/Command : prt fu legalall max

1 / 1 PLUSPAT - QUESTEL-ORBIT - image
PN - US5056892 A 19911015 [US5056892]
TI - (A) Totally internally reflecting thin, flexible film
PA - (A) MINNESOTA MINING & MFG (US)
PA0 - Minnesota Mining and Manufacturing Company, Saint Paul MN [US]
IN - (A) COBB JR SANFORD (US)
AP - US47262190 19900130 [1990US-0472621]
FD - Cont. of US218087 19880712 [1988US-0218087]
Cont. of US903655 19860905 [1986US-0903655] (Abandoned)
US819118 19860115 [1986US-0819118] (Abandoned)
C.I.P. of US799869 19851121 [1985US-0799869] (Abandoned)
Continuation of: US4906070
PR - US21808788 19880712 [1988US-0218087]
US47262190 19900130 [1990US-0472621]
US79986985 19851121 [1985US-0799869]
US81911886 19860115 [1986US-0819118]
IC - (A) G02B-005/04 G02B-005/124 G02B-005/136
EC - F24J-002/06D
F24J-002/10B
G02B-005/12
G02B-005/16C2
G02B-006/00L8
G02B-006/10
G02B-006/20
ICO - R21V-005/00H
R21V-008/00D
S02B-006/24
PCL - ORIGINAL (O) : 359831000; CROSS-REFERENCE (X) : 359528000
359546000
DT - Basic
CT - US2175067; US2218227; US2232551; US2248638; US2279555; US2723919;
US3288990; US3689346; US3908056; US4118763; US4120565; US4154219;
US4235515; US4244683; US4260220; US4389085; US4422719; US4466697;
US4497860; US4576850; US4615579; GB2127344
STG - (A) United States patent
AB - A thin, flexible film made of a transparent polymeric material
including a structured surface and an opposite smooth surface,
wherein light striking either surface, within certain angular
ranges, is totally internally reflected. The structured surface
includes a linear array of miniature substantially right angled
isosceles prisms arranged side-by-side to form a plurality of
peaks and grooves. In addition, the perpendicular sides of the

prisms make an angle of approximately 45 DEG with the smooth surface, and when the film is curled the smooth surface lies in a smooth continuous arcuate curve without materially affecting the performance of the film. Because of the film's flexibility and its ability to totally internally reflect light, it may be utilized in a variety of ways, for example, as a collector of solar energy or as a light conduit. The performance of the film may be manipulated to permit controlled light leakage.

1 / 1 LGST - ©EPO

PN - US5056892 A 19911015 [US5056892]
AP - US47262190 19900130 [1990US-0472621]
ACT - 20030602 US/AS-A

ASSIGNMENT

OWNER: 3M INNOVATIVE PROPERTIES COMPANY P.O. BOX 33427ST.;
 EFFECTIVE DATE: 20030520

ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNOR:3M COMPANY (FORMERLY
 MINNESOTA MINING AND MANUFACTURING COMPANY), A CORPORATION OF
 DELAWARE;REEL/FRAME:014120/0171

20030710 US/AS-A

ASSIGNMENT

OWNER: 3M INNOVATIVE PROPERTIES COMPANY P.O. BOX 33427ST.;
 EFFECTIVE DATE: 20030520

ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNOR:3M COMPANY (FORMERLY
 MINNESOTA MINING AND MANUFACTURING COMPANY), A CORPORATION OF THE
 STATE DELAWARE;REEL/FRAME:014305/0059

20050329 US/RF-A

REISSUE APPLICATION FILED

EFFECTIVE DATE: 20030710

UP - 2005-16

1 / 1 CRXX - ©CLAIMS/RRX

AN - 2190521
PN - 5,056,892 A 19911015 [US5056892]
PA - 3M Innovative Properties Co
PT - M (Mechanical)
ACT - 20030602 REASSIGNED

ASSIGNMENT OF ASSIGNORS INTEREST

Assignor: 3M COMPANY (FORMERLY MINNESOTA MINING AND MANUFACTURING
 COMPANY), A CORPORATION OF DELAWARE DATE SIGNED: 05/20/2003

Assignee: 3M INNOVATIVE PROPERTIES COMPANY P.O. BOX 33427 ST. PAUL
 MINNESOTA 55133-3427

Reel 014120/Frame 0171

Contact: 3M INNOVATIVE PROPERTIES COMPANY PO BOX 33427 ST. PAUL,
 MN 55133-3427

20030710 REASSIGNED

ASSIGNMENT OF ASSIGNORS INTEREST

Assignor: 3M COMPANY (FORMERLY MINNESOTA MINING AND MANUFACTURING
 COMPANY), A CORPORATION OF THE STATE DELAWARE, DATE SIGNED:

10/14/05

US 5,056,892

10/616530

05/20/2003

Assignee: 3M INNOVATIVE PROPERTIES COMPANY, P.O. BOX 33427, ST.
PAUL, MINNESOTA, 55133-3427

Reel 014305/Frame 0059

Contact: OFFICE OF INTELLECTUAL PROPERTY COUNSEL, STEPHEN W.
BUCKINGHAM, 3M INNOVATIVE PROPERTIES COMPANY, ST. PAUL, MINNESOTA
55133-3427

20030710 REISSUE REQUESTED
ISSUE DATE OF O.G.: 20050329
REISSUE REQUEST NUMBER: 10/616530
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2873

Reissue Patent Number:

UP - 2003-51
UACT- 2005-03-29
URAS- 2004-03-02

Search statement 4

Query/Command : fam us5056892/pn

1 Patent Groups
** SS 4: Results 35

Search statement 5

Query/Command : famstate nonstop

1 / 35 PLUSPAT - ©QUESTEL-ORBIT
PN - AR245987 A1 19940330 [AR-245987]
STG - (A1) Patent
TI - (A1) A TOTALLY INTERNALLY REFLECTING THIN, FLEXIBLE FILM
OTI - (A1) PELICULA DELGADA Y FLEXIBLE, DE MATERIAL POLIMERICO Y
CONDUCTO PARA TRANSPORTAR LUZ QUE LA COMPRENDE.
PA - (A1) MINNESOTA MINING AND MFG AND C
IC - (A1) G02B-005/04 G02B-005/124 G02B-006/00 G02B-027/00
LA - SPANISH (SPA)
AP - AR30598686 19861121 [1986AR-0305986]
PR - US79986985 19851121 [1985US-0799869]
EC - F24J-002/06D
G02B-005/12
G02B-005/16C2
G02B-006/10

STIC EIC 2800

Darcy Bates

272-2540

ICO - R21V-005/00H
R21V-008/00D
S02B-006/24
UP - 2004-40

2 / 35 *PLUSPAT - ©QUESTEL-ORBIT*
PN - AT101924 T 19940315 [ATE101924]
STG - (T) EP Patent valid in AT
OTI - (T) LICHTLEITER MIT TOTALER INTERNER REFLEXION.
PA - (T) MINNESOTA MINING & MFG (US)
IN - (T) COBB SANFORD JR C O MINNESOTA; MANUFACTURING COMPANY HUDSON R
IC - (T) G02B-006/10
LA - ENGLISH (ENG)
AP - AT86309051T 19861119 [1986AT-0309051]
PR - EP86309051 19861119 [1986EP-0309051]
US81911886 19860115 [1986US-0819118]

1 / 1 *LEGALI - ©EPO*
PN - AT101924 T 19940315 [ATE101924]
AP - AT86309051T 19861119 [1986AT-0309051]
ACTE - 19950115 AT/UEP-T [+]
PUBLICATION OF TRANSLATION OF EUROPEEN PATENT SPECIFICATION

20040815 AT/REN-T [-]
CEASED DUE TO NON-PAYMENT OF THE ANNUAL FEE
UP - 2004-34

3 / 35 *PLUSPAT - ©QUESTEL-ORBIT*
PN - AU6457686 A 19870528 [AU8664576]
STG - (A) Open to public inspection
TI - (A) PRISMATIC REFLECTING FILM
PA - (A) MINNESOTA MINING & MFG
IN - (A) COBB SANFORD JR
IC - (A) G02B-005/136
PN2 - AU582283 B2 19890316 [AU-582283]
STG2 - (B2) Patent preceeded by A1
TI2 - (B2) PRISMATIC REFLECTING FILM
PA2 - (B2) MINNESOTA MINING & MFG
IN2 - (B2) COBB SANFORD JR
IC2 - (B2) G02B-005/136 G02B-006/00 G02B-006/10
AP - AU6457686 19861031 [1986AU-0064576]
PR - US79986985 19851121 [1985US-0799869]
EC - F24J-002/06D
G02B-005/12
G02B-005/16C2
G02B-006/10
ICO - R21V-005/00H
R21V-008/00D
S02B-006/24

4 / 35 *PLUSPAT - ©QUESTEL-ORBIT*
PN - AU6457786 A 19870716 [AU8664577]
STG - (A) Open to public inspection
TI - (A) LIGHT CONDUIT
PA - (A) MINNESOTA MINING & MFG

IN - (A) COBB SANFORD JR
 IC - (A) G02B-006/00 G02B-006/10
 PN2 - AU582481 B2 19890323 [AU-582481]
 STG2- (B2) Patent preceeded by A1
 TI2 - (B2) LIGHT CONDUIT
 PA2 - (B2) MINNESOTA MINING & MFG
 IN2 - (B2) COBB SANFORD JR
 IC2 - (B2) G02B-006/10
 AP - AU6457786 19861031 [1986AU-0064577]
 PR - US81911886 19860115 [1986US-0819118]

5 / 35 PLUSPAT - ©QUESTEL-ORBIT
 PN - BR8605708 A 19870818 [BR8605708]
 STG - (A) Patent Application
 OTI - (A) FILME FLEXIVEL DELGADO FORMADO DE UM MATERIAL POLIMERICO
 TRANSPARENTE E CONDUTO DE LUZ
 PA - (A) MINNESOTA MINING & MFG (US)
 IN - (A) COBB SANFORD JR
 IC - (A) C08G-063/62 C08J-005/18
 AP - BR8605708 19861119 [1986BR-0005708]
 PR - US79986985 19851121 [1985US-0799869]
 EC - F24J-002/06D
 G02B-005/12
 G02B-005/16C2
 G02B-006/10
 ICO - R21V-005/00H
 R21V-008/00D
 S02B-006/24

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 PN - BR8605708 A 19870818 [BR8605708]
 AP - BR8605708 19861119 [1986BR-0005708]
 ACTE- 19950131 BR/FC-A [-]
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 19950523 BR/CKFC-A
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 UP - 2003-22

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 PN - BR8605709 A 19870818 [BR8605709]
 STG - (A) Patent Application
 OTI - (A) CONDUTO DE LUZ, LUMINARIA E LUZ DE ADVERTENCIA
 PA - (A) MINNESOTA MINING & MFG (US)
 IN - (A) COBB SANFORD JR
 IC - (A) G02B-006/10
 AP - BR8605709 19861119 [1986BR-0005709]
 PR - US81911886 19860115 [1986US-0819118]

7 / 35 PLUSPAT - ©QUESTEL-ORBIT
 PN - CA1268969 A1 19900515 [CA1268969]
 STG - (A1) Patent

TI - (A1) TOTALLY INTERNALLY REFLECTING LIGHT CONDUIT
 OTI - (A1) GUIDE DE LUMIERE A REFLEXION INTERNE TOTALE
 PA - (A1) MINNESOTA MINING & MFG
 IN - (A1) COBB SANFORD JR
 IC - (A1) G02B-006/00
 LA - ENGLISH (ENG)
 AP - CA521319 19861024 [1986CA-0521319]
 PR - US81911886 19860115 [1986US-0819118]

8 / 35 PLUSPAT - ©QUESTEL-ORBIT
 PN - CA1279783 C 19910205 [CA1279783]
 STG - (C) Patent
 TI - (C) TOTALLY INTERNALLY REFLECTING THIN, FLEXIBLE FILM
 OTI - (C) PELLICULE MINCE ET SOUPLE REFLECHISSANT INTEGRALEMENT VERS
 L'INTERIEUR
 PA - (C) MINNESOTA MINING & MFG (US)
 IN - (C) COBB SANFORD JR (US)
 IC - (C) G02B-005/124
 LA - ENGLISH (ENG)
 AP - CA521320 19861024 [1986CA-0521320]
 PR - US79986985 19851121 [1985US-0799869]
 EC - F24J-002/06D
 G02B-005/12
 G02B-005/16C2
 G02B-006/10
 ICO - R21V-005/00H
 R21V-008/00D
 S02B-006/24

9 / 35 PLUSPAT - ©QUESTEL-ORBIT
 PN - DE3688123 D1 19930429 [DE3688123]
 STG - (D1) Granted EP number in bulletin
 OTI - (D1) FLEXIBLER DUENNER FILM MIT TOTALER INTERNER REFLEXION.
 PA - (D1) MINNESOTA MINING & MFG (US)
 IN - (D1) COBB JR C O MINNESOTA MINING A (US)
 IC - (D1) G02B-005/124 G02B-006/00
 PN2 - DE3688123 T2 19930826 [DE3688123]
 STG2 - (T2) Trans. of EP patent
 OTI2 - (T2) FLEXIBLER DUENNER FILM MIT TOTALER INTERNER REFLEXION.
 PA2 - (T2) MINNESOTA MINING & MFG (US)
 IN2 - (T2) COBB JR C O MINNESOTA MINING A (US)
 IC2 - (T2) G02B-005/124 G02B-006/00
 AP - DE3688123 19861119 [1986DE-3688123]
 PR - US79986985 19851121 [1985US-0799869]
 EC - F24J-002/06D
 G02B-005/12
 G02B-005/16C2
 G02B-006/10
 ICO - R21V-005/00H
 R21V-008/00D
 S02B-006/24

1 / 2 LEGALI - ©EPO
 PN - DE3688123 D1 19930429 [DE3688123] DE3688123 T2 19930826 [DE3688123]
 AP - DE3688123 19861119 [1986DE-3688123]
 ACTE - 19940421 DE/8364-A [+]
 NO OPPOSITION DURING TERM OF OPPOSITION

UP - 2003-22

2 / 2 LEGALI - @EPO
 PN - EP0225123 A2 19870610 [EP-225123] EP0225123 A3 19890719
 [EP-225123] EP0225123 B1 19930324 [EP-225123]

AP - EP86309049 19861119 [1986EP-0309049]

ACTE - 19870610 EP/AK-A [+]
 DESIGNATED CONTRACTING STATES:
 DE FR GB IT NL SE

19890719 EP/AK-A [+]
 DESIGNATED CONTRACTING STATES:
 DE FR GB IT NL SE

19900307 EP/17P-A [+]
 REQUEST FOR EXAMINATION FILED
 EFFECTIVE DATE: 19900102

19911121 EP/17Q-A [+]
 FIRST EXAMINATION REPORT
 EFFECTIVE DATE: 19911007

19930113 EP/ITF-A [+]
 IT: TRANSLATION FOR A EP PATENT FILED
 OWNER: BARZANO' E ZANARDO ROMA S.P.A.

19930324 EP/AK-A [+]
 DESIGNATED CONTRACTING STATES:
 DE FR GB IT NL SE

19930429 EP/REF-A
 CORRESPONDS TO:
 (DE 3688123 19930429 [DE3688123])

19930604 EP/ET-A [+]
 FR: TRANSLATION FILED

19940316 EP/26N-A [+]
 NO OPPOSITION FILED

19950131 EP/EAL-A [+]
 SE: EUROPEAN PATENT IN FORCE IN SWEDEN
 86309049.4 [-86309049.4]

20020101 EP/REG-A; GB/IF02 [+]
 GB: EUROPEAN PATENT IN FORCE AS OF 2002-01-01
 <GB>

UP - 2003-22

10 / 35 PLUSPAT - @QUESTEL-ORBIT
 PN - DE3689668 D1 19940331 [DE3689668]
 STG - (D1) Granted EP number in bulletin
 OTI - (D1) Lichtleiter mit totaler interner Reflexion.
 PA - (D1) MINNESOTA MINING & MFG (US)
 IN - (D1) COBB SANFORD (US)
 IC - (D1) G02B-006/10
 PN2 - DE3689668 T2 19940929 [DE3689668]
 STG2 - (T2) Trans. Of EP patent
 OTI2 - (T2) Lichtleiter mit totaler interner Reflexion.
 PA2 - (T2) MINNESOTA MINING & MFG (US)

IN2 - (T2) COBB SANFORD (US)
 IC2 - (T2) G02B-006/10
 AP - DE3689668 19861119 [1986DE-3689668]
 PR - US81911886 19860115 [1986US-0819118]

1 / 1 LEGALI - @EPO
 PN - DE3689668 D1 19940331 [DE3689668]DE3689668 T2 19940929 [DE3689668]
 AP - DE3689668 19861119 [1986DE-3689668]
 ACTE- 19950323 DE/8364-A [+]
 NO OPPOSITION DURING TERM OF OPPOSITION
 UP - 2003-22

11 / 35 PLUSPAT - @QUESTEL-ORBIT
 PN - DK559686 D0 19861121 [DK8605596]
 STG - (D0) Application filed
 OTI - (D0) TOTALT INTERNT REFLEKTERENDE LYSLEDNING
 PA - (D0) MINNESOTA MINING & MFG (US)
 IN - (D0) COBB JR SANFORD
 IC - (D0) F21V-008/00 G02B-006/00
 PN2 - DK559686 A 19870522 [DK8605596]
 STG2- (A) Unex. Appli. Open to public inspec.
 OTI2- (A) TOTALT INTERNT REFLEKTERENDE LYSLEDNING
 PA2 - (A) MINNESOTA MINING & MFG (US)
 IN2 - (A) COBB JR SANFORD
 IC2 - (A) F21V G02B
 AP - DK559686 19861121 [1986DK-0005596]
 PR - US79986985 19851121 [1985US-0799869]
 US81911886 19860115 [1986US-0819118]

1 / 1 LEGALI - @EPO
 PN - DK559686 D0 19861121 [DK8605596]DK559686 A 19870522 [DK8605596]
 AP - DK559686 19861121 [1986DK-0005596]
 ACTE- 19870522 DK/A-A [+]
 PUBLISHED APPLICATION
 20020812 DK/AHS-A [-]
 APPLICATION SHELFED FOR OTHER REASONS THAN NON-PAYMENT
 UP - 2004-15

12 / 35 PLUSPAT - @QUESTEL-ORBIT - image
 PN - EP0225123 A2 19870610 [EP-225123]
 STG - (A2) Publ. Of applic. Without search report
 TI - (A2) A totally internally reflecting thin, flexible film.
 OTI - (A2) Flexible dünner Film mit totaler interner Reflexion.
 (A2) Film mince flexible à réflexion interne totale.
 PA - (A2) MINNESOTA MINING & MFG (US)
 IN - (A2) COBB SANFORD JR C O MINNESOTA
 IC - (A2) G02B-005/124 G02B-006/00
 PN2 - EP0225123 A3 19890719 [EP-225123]
 STG2- (A3) Publi. Of search report
 TI2 - (A3) A TOTALLY INTERNALLY REFLECTING THIN, FLEXIBLE FILM
 IC2 - (A3) G02B-005/124 G02B-006/00
 PN3 - EP0225123 B1 19930324 [EP-225123]
 STG3- (B1) Patent
 TI3 - (B1) A TOTALLY INTERNALLY REFLECTING THIN, FLEXIBLE FILM

IC3 - (B1) G02B-005/124 G02B-006/00
LA - ENGLISH (ENG)
AP - EP86309049 19861119 [1986EP-0309049]
PR - US79986985 19851121 [1985US-0799869]
EC - F24J-002/06D
G02B-005/12
G02B-005/16C2
G02B-006/10
ICO - R21V-005/00H
R21V-008/00D
S02B-006/24
DS - DE FR GB IT NL SE
DT - Basic

1 / 1 LEGALI - @EPO
PN - EP0225123 A2 19870610 [EP-225123]EP0225123 A3 19890719
[EP-225123]EP0225123 B1 19930324 [EP-225123]
AP - EP86309049 19861119 [1986EP-0309049]
ACTE- 19870610 EP/AK-A [+]
DESIGNATED CONTRACTING STATES:
DE FR GB IT NL SE

19890719 EP/AK-A [+]
DESIGNATED CONTRACTING STATES:
DE FR GB IT NL SE

19900307 EP/17P-A [+]
REQUEST FOR EXAMINATION FILED
EFFECTIVE DATE: 19900102

19911121 EP/17Q-A [+]
FIRST EXAMINATION REPORT
EFFECTIVE DATE: 19911007

19930113 EP/ITF-A [+]
IT: TRANSLATION FOR A EP PATENT FILED
OWNER: BARZANO' E ZANARDO ROMA S.P.A.

19930324 EP/AK-A [+]
DESIGNATED CONTRACTING STATES:
DE FR GB IT NL SE

19930429 EP/REF-A
CORRESPONDS TO:
(DE 3688123 19930429 [DE3688123])

19930604 EP/ET-A [+]
FR: TRANSLATION FILED

19940316 EP/26N-A [+]
NO OPPOSITION FILED

19950131 EP/EAL-A [+]
SE: EUROPEAN PATENT IN FORCE IN SWEDEN
86309049.4 [-86309049.4]

20020101 EP/REG-A; GB/IF02 [+]
GB: EUROPEAN PATENT IN FORCE AS OF 2002-01-01
<GB>
UP - 2003-22

13 / 35 PLUSPAT - @QUESTEL-ORBIT - image

PN - EP0235447 A2 19870909 [EP-235447]
 STG - (A2) Publ. Of applic. Without search report
 TI - (A2) A totally internally reflecting light conduit.
 OTI - (A2) Lichtleiter mit totaler interner Reflexion.
 (A2) Conduit de lumière à réflexion interne totale.
 PA - (A2) MINNESOTA MINING & MFG (US)
 IN - (A2) COBB SANFORD JR C O MINNESOTA
 IC - (A2) G02B-006/10
 PN2 - EP0235447 A3 19890125 [EP-235447].
 STG2 - (A3) Publi. Of search report
 TI2 - (A3) A TOTALLY INTERNALLY REFLECTING LIGHT CONDUIT
 IC2 - (A3) G02B-006/10
 PN3 - EP0235447 B1 19940223 [EP-235447]
 STG3 - (B1) Patent
 TI3 - (B1) A totally internally reflecting light conduit.
 OTI3 - (B1) Lichtleiter mit totaler interner Reflexion.
 (B1) Conduit de lumière à réflexion interne totale.
 PA3 - (B1) MINNESOTA MINING & MFG (US)
 IN3 - (B1) COBB SANFORD JR C O MINNESOTA (US)
 IC3 - (B1) G02B-006/10
 LA - ENGLISH (ENG)
 AP - EP86309051 19861119 [1986EP-0309051]
 PR - US81911886 19860115 [1986US-0819118]
 EC - G02B-006/00L8
 G02B-006/10
 G02B-006/20
 ICO - S02B-006/24
 DS - AT BE DE ES FR GB IT NL SE
 DT - Basic

1 / 2 LEGALI - @EPO

PN - ES2049209 T3 19940416 [ES2049209]
 AP - ES86309051T 19861119 [1986ES-0309051]
 ACTE - 19940416 ES/FG2A-T
 DEFINITIVE PROTECTION
 (EP 235447 - [EP-235447])
 UP - 2003-22

2 / 2 LEGALI - @EPO

PN - EP0235447 A2 19870909 [EP-235447]EP0235447 A3 19890125
 [EP-235447]EP0235447 B1 19940223 [EP-235447]
 AP - EP86309051 19861119 [1986EP-0309051]
 ACTE - 19870909 EP/AK-A [+]
 DESIGNATED CONTRACTING STATES:
 AT BE DE ES FR GB IT NL SE

 19890125 EP/AK-A [+]
 DESIGNATED CONTRACTING STATES:
 AT BE DE ES FR GB IT NL SE

 19890913 EP/17P-A [+]
 REQUEST FOR EXAMINATION FILED
 EFFECTIVE DATE: 19890719

 19920108 EP/17Q-A [+]
 FIRST EXAMINATION REPORT
 EFFECTIVE DATE: 19911128

19931220 EP/ITF-A [+]
 IT: TRANSLATION FOR A EP PATENT FILED
 OWNER: BARZANO' E ZANARDO ROMA S.P.A.

19940223 EP/REF-A
 CORRESPONDS TO:
 (AT 101924T 19940315 [ATE101924])

19940223 EP/AK-A [+]
 DESIGNATED CONTRACTING STATES:
 AT BE DE ES FR GB IT NL SE

19940331 EP/REF-A
 CORRESPONDS TO:
 (DE 3689668 19940331 [DE3689668])

19940416 EP/REG-A; ES/FG2A
 ES: DEFINITIVE PROTECTION
 (ES 2049209T3 [ES2049209])

19940520 EP/ET-A [+]
 FR: TRANSLATION FILED

19950131 EP/EAL-A [+]
 SE: EUROPEAN PATENT IN FORCE IN SWEDEN
 86309051.0 [-86309051.0]

19950215 EP/26N-A [+]
 NO OPPOSITION FILED

20000717 EP/EUG-A [-]
 SE: EUROPEAN PATENT HAS LAPSED
 86309051.0 [-86309051.0]

20020101 EP/REG-A; GB/IF02 [+]
 GB: EUROPEAN PATENT IN FORCE AS OF 2002-01-01
 <GB>

20040531 EP/BERE-A [-]
 BE: LAPSED
 OWNER: *MINNESOTA MINING AND MFG CY; EFFECTIVE DATE: 20031130
 UP - 2004-45

14 / 35 PLUSPAT - QUESTEL-ORBIT
 PN - ES2003516 A6 19881101 [ES2003516]
 STG - (A6) Pat. Granted without search report
 OTI - (A6) PELICULA FLEXIBLE DELGADA DE MATERIAL POLIMERICO TRANSPARENTE,
 , PARTICULARMENTE POLICARBONATO O MATERIAL ACRILICO, Y CONDUCTO
 DE TRANSPORTE DE LUZ CORRESPONDIENTE.
 PA - (A6) MINNESOTA MINING & MFG (US)
 IN - (A6) COBB JR SANFORD
 IC - (A6) G02B-005/124 G02B-006/00
 AP - ES8603080 19861118 [1986ES-0003080]
 PR - US79986985 19851121 [1985US-0799869]
 EC - F24J-002/06D
 G02B-005/12
 G02B-005/16C2
 G02B-006/10
 ICO - R21V-005/00H
 R21V-008/00D

S02B-006/24
 UP - 2000-08

1 / 1 LEGALI - @EPO
 PN - ES2003516 A6 19881101 [ES2003516]
 AP - ES8603080 19861118 [1986ES-0003080]
 ACTE- 19920101 ES/SA6-A
 THE EXPIRATION DATE (SNAPSHOT 920101) IS A6
 2006-11-18
 UP - 2003-22

15 / 35 PLUSPAT - @QUESTEL-ORBIT
 PN - ES2049209 T3 19940416 [ES2049209]
 STG - (T3) Transl. Compl. Txt. Of grted Eur. Pat.
 OTI - (T3) UN CONDUCTO DE LUZ TOTALMENTE REFLECTOR POR DENTRO.
 PA - (T3) MINNESOTA MINING & MFG
 IN - (T3) COBB SANFORD JR C O MINNESOTA (US)
 IC - (T3) G02B-006/10
 AP - ES86309051T 19861119 [1986ES-0309051]
 PR - US81911886 19860115 [1986US-0819118]
 UP - 2000-08

1 / 1 LEGALI - @EPO
 PN - ES2049209 T3 19940416 [ES2049209]
 AP - ES86309051T 19861119 [1986ES-0309051]
 ACTE- 19940416 ES/FG2A-T
 DEFINITIVE PROTECTION
 (EP 235447 - [EP-235447])
 UP - 2003-22

16 / 35 PLUSPAT - @QUESTEL-ORBIT
 PN - HK47395 A 19950407 [HK9500473]
 STG - (A) UK patents registered
 TI - (A) A totally internally reflecting light conduit.
 PA - (A) MINNESOTA MINING & MFG (US)
 IN - (A) COBB SANFORD JR (US)
 IC - (A) G02B-006/10
 AP - HK47395 19950330 [1995HK-0000473]
 PR - US81911886 19860115 [1986US-0819118]

1 / 1 LEGALI - @EPO
 PN - HK47395 A 19950407 [HK9500473]
 AP - HK47395 19950330 [1995HK-0000473]
 ACTE- 20041215 HK/PF-A [+]
 PATENT IN FORCE
 UP - 2005-25

17 / 35 PLUSPAT - @QUESTEL-ORBIT
 PN - HK47595 A 19950407 [HK9500475]
 STG - (A) UK patents registered
 TI - (A) A totally internally reflecting thin, flexible film.

PA - (A) MINNESOTA MINING & MFG (US)
IN - (A) COBB SANFORD JR (US)
IC - (A) G02B-005/124 G02B-006/00
AP - HK47595 19950330 [1995HK-0000475]
PR - US79986985 19851121 [1985US-0799869]
EC - F24J-002/06D
 G02B-005/12
 G02B-005/16C2
 G02B-006/10
ICO - R21V-005/00H
 R21V-008/00D
 S02B-006/24

1 / 1 LEGALI - @EPO
PN - HK47595 A 19950407 [HK9500475]
AP - HK47595 19950330 [1995HK-0000475]
ACTE - 20041215 HK/PF-A [+]
 PATENT IN FORCE
UP - 2005-25

18 / 35 PLUSPAT - @QUESTEL-ORBIT
PN - IL80692 D0 19870227 [IL--80692]
STG - (D0) Notice under sect. 16 patent law
TI - (D0) TOTALLY INTERNALLY REFLECTING LIGHT CONDUIT
PA - (D0) MINNESOTA MINING & MFG
IC - (A) G02B
PN2 - IL80692 A 19900610 [IL--80692]
STG2 - (A) Applic. Laid open to publ. Inspec
TI2 - (A) TOTALLY INTERNALLY REFLECTING LIGHT CONDUIT
PA2 - (A) MINNESOTA MINING & MFG (US)
IC2 - (D0) G02B-006/00
AP - IL8069286 19861119 [1986IL-0080692]
PR - US79986985 19851121 [1985US-0799869]
 US81911886 19860115 [1986US-0819118]

1 / 1 LEGALI - @EPO
PN - IL80692 D0 19870227 [IL--80692] IL80692 A 19900610 [IL--80692]
AP - IL8069286 19861119 [1986IL-0080692]
ACTE - 19970218 IL/KB-A [+]
 PATENTS RENEWED
 20010430 IL/KB-A [+]
 PATENTS RENEWED
UP - 2003-22

19 / 35 PLUSPAT - @QUESTEL-ORBIT - image
PN - JP10082902 A 19980331 [JP10082902]
STG - (A) Doc. Laid open to publ. Inspec.
TI - (A) THIN DEFORMABLE FILM
PA - (A) MINNESOTA MINING & MFG
PA0 - (A) MINNESOTA MINING & MFG CO <3M>
IN - (A) COBB JR SANFORD
IC - (A) G02B-005/04 G02B-005/08
AP - JP11328697 19970327 [1997JP-0113286]
PR - US79986985 19851121 [1985US-0799869]

EC - F24J-002/06D
 G02B-005/12
 G02B-005/16C2
 G02B-006/10
ICO - R21V-005/00H
 R21V-008/00D
 S02B-006/24

20 / 35 *PLUSPAT - @QUESTEL-ORBIT - image*
PN - JP10068804 A 19980310 [JP10068804]
STG - (A) Doc. Laid open to publ. Inspec.
TI - (A) THIN DEFORMATIVE FILM
PA - (A) MINNESOTA MINING & MFG
PAO - (A) MINNESOTA MINING & MFG CO <3M>
IN - (A) COBB JR SANFORD
IC - (A) G02B-005/04 G02B-005/08
AP - JP11328797 19970327 [1997JP-0113287]
PR - US79986985 19851121 [1985US-0799869]
EC - F24J-002/06D
 G02B-005/12
 G02B-005/16C2
 G02B-006/10
ICO - R21V-005/00H
 R21V-008/00D
 S02B-006/24

21 / 35 *PLUSPAT - @QUESTEL-ORBIT - image*
PN - JP2001311808 A 20011109 [JP2001311808]
STG - (A) Doc. Laid open to publ. Inspec.
TI - (A) THIN DEFORMABLE FILM
PA - (A) MINNESOTA MINING & MFG
PAO - (A) MINNESOTA MINING & MFG CO <3M>
IN - (A) COBB JR SANFORD
IC - (A) G02B-005/02
AP - JP2001096666 20010329 [2001JP-0096666]
PR - US79986985 19851121 [1985US-0799869]
EC - F24J-002/06D
 G02B-005/12
 G02B-005/16C2
 G02B-006/10
ICO - R21V-005/00H
 R21V-008/00D
 S02B-006/24
UP - 2001-51

22 / 35 *PLUSPAT - @QUESTEL-ORBIT - image*
PN - JP2003227910 A 20030815 [JP2003227910]
STG - (A) Doc. Laid open to publ. Inspec.
TI - (A) THIN, FLEXIBLE FILM
PA - (A) MINNESOTA MINING & MFG
IN - (A) COBB JR SANFORD
IC - (A) G02B-005/04 G02B-005/08 G02B-006/00
AP - JP2003015219 20030123 [2003JP-0015219]
PR - US79986985 19851121 [1985US-0799869]
EC - F24J-002/06D
 G02B-005/12
 G02B-005/16C2

G02B-006/10
 ICO - R21V-005/00H
 R21V-008/00D
 S02B-006/24
 UP - 2003-36

23 / 35 PLUSPAT - ©QUESTEL-ORBIT - image
 PN - JP2004326127 A 20041118 [JP2004326127]
 STG - (A) Doc. Laid open to publ. Inspec.
 TI - (A) THIN TRANSFORMABLE FILM
 PA - (A) MINNESOTA MINING & MFG
 IN - (A) COBB JR SANFORD
 IC - (A) F24J-002/10 G02B-005/04
 AP - JP2004170887 20040609 [2004JP-0170887]
 PR - US79986985 19851121 [1985US-0799869]
 EC - F24J-002/06D
 G02B-005/12
 G02B-005/16C2
 G02B-006/10
 ICO - R21V-005/00H
 R21V-008/00D
 S02B-006/24
 UP - 2004-52

24 / 35 PLUSPAT - ©QUESTEL-ORBIT
 PN - JP62165603 A 19870722 [JP62165603]
 STG - (A) Doc. Laid open to publ. Inspec.
 TI - (A) PHOTO INDUCTION TUBE
 PA - (A) MINNESOTA MINING & MFG
 IN - (A) SANFUOODO KOBU JIYUNIA
 IC - (A) G02B-006/00
 PN2 - JP2628858 B2 19970709 [JP2628858]
 STG2 - (B2) Grant. Pat. With A from 2500000 on
 IC2 - (B2) G02B-006/00
 AP - JP27778986 19861120 [1986JP-0277789]
 PR - US81911886 19860115 [1986US-0819118]

25 / 35 PLUSPAT - ©QUESTEL-ORBIT
 PN - JP62144102 A 19870627 [JP62144102]
 STG - (A) Doc. Laid open to publ. Inspec.
 TI - (A) THIN ELASTIC FILM
 PA - (A) MINNESOTA MINING & MFG
 IN - (A) SANFUOODO KOBU JIYUNIA
 IC - (A) G02B-005/04
 PN2 - JP2670518 B2 19971029 [JP2670518]
 STG2 - (B2) Grant. Pat. With A from 2500000 on
 IC2 - (B2) G02B-005/04
 AP - JP27779086 19861120 [1986JP-0277790]
 PR - US79986985 19851121 [1985US-0799869]
 EC - F24J-002/06D
 G02B-005/12
 G02B-005/16C2
 G02B-006/10
 ICO - R21V-005/00H
 R21V-008/00D
 S02B-006/24

26 / 35 PLUSPAT - @QUESTEL-ORBIT - image
 PN - JP2000137105 A 20000516 [JP2000137105]
 STG - (A) Doc. Laid open to publ. Inspec.
 TI - (A) THIN, DEFORMABLE FILM
 PA - (A) MINNESOTA MINING & MFG
 PAO - (A) MINNESOTA MINING & MFG CO <3M>
 IN - (A) COBB JR SANFORD
 IC - (A) G02B-005/02 G02B-006/00 G02B-006/10
 PN2 - JP3262230 B2 20020304 [JP3262230]
 STG2 - (B2) Grant. Pat. With A from 2500000 on
 IC2 - (B2) F21V-008/00 G02B-006/00
 AP - JP32447399 19991012 [1999JP-0324473]
 PR - US79986985 19851121 [1985US-0799869]
 EC - F24J-002/06D
 G02B-005/12
 G02B-005/16C2
 G02B-006/10
 ICO - R21V-005/00H
 R21V-008/00D
 S02B-006/24
 UP - 2000-26

27 / 35 PLUSPAT - @QUESTEL-ORBIT
 PN - KR9503434 B1 19950412 [KR9503434]
 STG - (B1) Examined pat. App. (2nd pub.) B5
 TI - (B1) TOTALLY INTERNALLY REFLECTING THIN FLEXIBLE FILM
 PA - (B1) MINNESOTA MINING & MFG (US)
 IN - (B1) SANFORD JR COBB (US)
 IC - (B1) G02B-005/124 G02B-006/00
 AP - KR8609868 19861120 [1986KR-0009868]
 PR - US79986985 19851121 [1985US-0799869]
 EC - F24J-002/06D
 G02B-005/12
 G02B-005/16C2
 G02B-006/10
 ICO - R21V-005/00H
 R21V-008/00D
 S02B-006/24

28 / 35 PLUSPAT - @QUESTEL-ORBIT
 PN - KR9503436 B1 19950412 [KR9503436]
 STG - (B1) Examined pat. App. (2nd pub.) B5
 TI - (B1) TOTALLY INTERNALLY REFLECTING LIGHT CONDUIT
 PA - (B1) MINNESOTA MINING & MFG (US)
 IN - (B1) SANFORD JR COBB (US)
 IC - (B1) G02B-006/10
 AP - KR8609802 19861120 [1986KR-0009802]
 PR - US81911886 19860115 [1986US-0819118]

29 / 35 PLUSPAT - @QUESTEL-ORBIT
 PN - MX168138 B 19930506 [MX-168138]
 STG - (B) Granted patent
 OTI - (B) PELICULA FLEXIBLE Y DELGADA, FORMADA DE UN MATERIAL POLIMERICO
 PA - (B) MINNESOTA MINING & MFG (US)
 IN - (B) COBB SANFORD JR (US)

IC - (B) F24J-002/18
 AP - MX424786 19861103 [1986MX-0004247]
 PR - US79986985 19851121 [1985US-0799869]
 EC - F24J-002/06D
 G02B-005/12
 G02B-005/16C2
 G02B-006/10
 ICO - R21V-005/00H
 R21V-008/00D
 S02B-006/24

30 / 35 PLUSPAT - @QUESTEL-ORBIT
 PN - MX170423 B 19930823 [MX-170423]
 STG - (B) Granted patent
 OTI - (B) CONDUCTO PARA TRANSPORTAR O DISTRIBUIR LA LUZ
 PA - (B) MINNESOTA MINING & MFG (US)
 IN - (B) COBB SANFORD JR (US)
 IC - (B) G02B-023/00
 AP - MX424886 19861103 [1986MX-0004248]
 PR - US81911886 19860115 [1986US-0819118]

31 / 35 PLUSPAT - @QUESTEL-ORBIT
 PN - NO864631 D0 19861120 [NO8604631]
 STG - (D0) Application filed
 OTI - (D0) HUL, ROERFORMAT LYSLEDNING.
 PA - (D0) MINNESOTA MINING & MFG (US)
 IN - (D0) COBB SANFORD
 IC - (D0) F21V
 PN2 - NO864631 A 19870522 [NO8604631]
 STG2 - (A) Unex. Applic. Open to public inspec
 OTI2 - (A) HUL, ROERFORMAT LYSLEDNING.
 PA2 - (A) MINNESOTA MINING & MFG (US)
 IN2 - (A) COBB SANFORD
 IC2 - (A) F21V
 PN3 - NO173797 B 19931025 [NO-173797]
 STG3 - (B) Examined application
 OTI3 - (B) HUL, ROERFORMAT LYSLEDNING
 PA3 - (B) MINNESOTA MINING & MFG (US)
 IN3 - (B) COBB JR SANFORD
 IC3 - (B) F21V-008/00 G02B-006/00
 PN4 - NO173797 C 19940202 [NO-173797]
 STG4 - (C) Granted patent
 OTI4 - (C) Hul, roerformat lysledning
 PA4 - (C) MINNESOTA MINING & MFG (US)
 IN4 - (C) COBB SANFORD JR (US)
 IC4 - (C) F21V-008/00 G02B-006/00
 AP - NO864631 19861120 [1986NO-0004631]
 PR - US79986985 19851121 [1985US-0799869]
 US81911886 19860115 [1986US-0819118]

1 / 1 LEGALI - @EPO
 PN - NO864631 D0 19861120 [NO8604631] NO864631 A 19870522
 [NO8604631] NO173797 B 19931025 [NO-173797] NO173797 C 19940202
 [NO-173797]
 AP - NO864631 19861120 [1986NO-0004631]
 ACTE - 20041122 NO/MM1K-A
 LAPSED BY NOT PAYING THE ANNUAL FEES

UP - 2005-09

32 / 35 PLUSPAT - @QUESTEL-ORBIT

PN - NO932336 A 19880522 [NO9302336]
 STG - (A) Unex. Applic. Open to public inspec
 OTI - (A) BANEMATERIALE FOR EN VEGG I EN LYSLEDER
 PA - (A) MINNESOTA MINING & MFG (US)
 IN - (A) COBB SANFORD
 IC - (A) G02B-006/00
 PN2 - NO932336 DO 19930624 [NO9302336]
 STG2 - (D0) Application filed
 OTI2 - (D0) BANEMATERIALE FOR EN VEGG I EN LYSLEDER
 PA2 - (D0) MINNESOTA MINING & MFG (US)
 IN2 - (D0) COBB SANFORD
 IC2 - (D0) G02B
 AP - NO932336 19930624 [1993NO-0002336]
 PR - NO864631 19861120 [1986NO-0004631]
 NO932336 19930624 [1993NO-0002336]
 US79986985 19851121 [1985US-0799869]
 US81911886 19860115 [1986US-0819118]

33 / 35 PLUSPAT - @QUESTEL-ORBIT - image

PN - US4906070 A 19900306 [US4906070]
 STG - (A) United States patent
 TI - (A) Totally internally reflecting thin, flexible film
 PA - (A) MINNESOTA MINING & MFG (US)
 PA0 - Minnesota Mining and Manufacturing Company, St. Paul MN [US]
 IN - (A) COBB JR SANFORD (US)
 IC - (A) G02B-005/04 G02B-005/124 G02B-005/136
 AP - US21808788 19880712 [1988US-0218087]
 PR - US21808788 19880712 [1988US-0218087]
 US79986985 19851121 [1985US-0799869]
 EC - G02B-005/12
 G02B-005/16C2
 G02B-006/10
 ICO - R21V-005/00H
 PCL - ORIGINAL (O) : 359834000
 DT - Corresponding document

1 / 1 LEGALI - @EPO

PN - US4906070 A 19900306 [US4906070]
 AP - US21808788 19880712 [1988US-0218087]
 ACTE- 20030602 US/AS-A
 ASSIGNMENT
 OWNER: 3M INNOVATIVE PROPERTIES COMPANY P.O. BOX 33427ST.;
 EFFECTIVE DATE: 20030520
 ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNOR:3M COMPANY (FORMERLY
 MINNESOTA MINING AND MANUFACTURING COMPANY), A CORPORATION OF
 DELAWARE;REEL/FRAME:014120/0171
 20030710 US/AS-A
 ASSIGNMENT
 OWNER: 3M INNOVATIVE PROPERTIES COMPANY P.O. BOX 33427ST.;
 EFFECTIVE DATE: 20030520
 ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNOR:3M COMPANY (FORMERLY
 MINNESOTA MINING AND MANUFACTURING COMPANY), A CORPORATION OF THE
 STATE DELAWARE;REEL/FRAME:014305/0059

10/14/05

US 5,056,892

10/616530

UP - 2005-03

34 / 35 PLUSPAT - ©QUESTEL-ORBIT - image
PN - US5056892 A 19911015 [US5056892]
STG - (A) United States patent
TI - (A) Totally internally reflecting thin, flexible film
PA - (A) MINNESOTA MINING & MFG (US)
PAO - Minnesota Mining and Manufacturing Company, Saint Paul MN [US]
IN - (A) COBB JR SANFORD (US)
IC - (A) G02B-005/04 G02B-005/124 G02B-005/136
AP - US47262190 19900130 [1990US-0472621]
PR - US21808788 19880712 [1988US-0218087]
US47262190 19900130 [1990US-0472621]
US79986985 19851121 [1985US-0799869]
US81911886 19860115 [1986US-0819118]
EC - F24J-002/06D
F24J-002/10B
G02B-005/12
G02B-005/16C2
G02B-006/00L8
G02B-006/10
G02B-006/20
ICO - R21V-005/00H
R21V-008/00D
S02B-006/24
PCL - ORIGINAL (O) : 359831000; CROSS-REFERENCE (X) : 359528000
359546000
DT - Basic

1 / 1 LEGALI - ©EPO
PN - US5056892 A 19911015 [US5056892]
AP - US47262190 19900130 [1990US-0472621]
ACTE- 20030602 US/AS-A
ASSIGNMENT
OWNER: 3M INNOVATIVE PROPERTIES COMPANY P.O. BOX 33427ST.;
EFFECTIVE DATE: 20030520
ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNOR:3M COMPANY (FORMERLY
MINNESOTA MINING AND MANUFACTURING COMPANY), A CORPORATION OF
DELAWARE;REEL/FRAME:014120/0171

20030710 US/AS-A
ASSIGNMENT
OWNER: 3M INNOVATIVE PROPERTIES COMPANY P.O. BOX 33427ST.;
EFFECTIVE DATE: 20030520
ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNOR:3M COMPANY (FORMERLY
MINNESOTA MINING AND MANUFACTURING COMPANY), A CORPORATION OF THE
STATE DELAWARE;REEL/FRAME:014305/0059

20050329 US/RF-A
REISSUE APPLICATION FILED
EFFECTIVE DATE: 20030710
UP - 2005-16

35 / 35 PLUSPAT - ©QUESTEL-ORBIT - image
PN - US4805984 A 19890221 [US4805984]
STG - (A) United States patent
TI - (A) Totally internally reflecting light conduit

STIC EIC 2800

Darcy Bates

272-2540

PA - (A) MINNESOTA MINING & MFG (US)
PA0 - Minnesota Mining and Manufacturing Company, St. Paul MN [US]
IN - (A) COBB JR SANFORD (US)
IC - (A) G02B-006/00
AP - US90365786 19860905 [1986US-0903657]
PR - US90365786 19860905 [1986US-0903657]
 US79986985 19851121 [1985US-0799869]
 US81911886 19860115 [1986US-0819118]
EC - G02B-005/12
 G02B-005/16C2
 G02B-006/00L8
 G02B-006/10
 G02B-006/20
ICO - R21V-005/00H
 R21V-008/00D
 S02B-006/24
PCL - ORIGINAL (O) : 385133000; CROSS-REFERENCE (X) : 359592000
 359598000 385147000
DT - Corresponding document

1 / 1 *LEGALI - @EPO*
PN - US4805984 A 19890221 [US4805984]
AP - US90365786 19860905 [1986US-0903657]
ACTE - 19860905 US/AS02-A
 ASSIGNMENT OF ASSIGNOR'S INTEREST
 OWNER: MINNESOTA MINING AND MANUFACTURING COMPANY, SAINT;
 EFFECTIVE DATE: 19860904

 19860905 US/AS02-A
 ASSIGNMENT OF ASSIGNOR'S INTEREST
 OWNER: COBB, SANFORD JR.; EFFECTIVE DATE: 19860904

 20030602 US/AS-A
 ASSIGNMENT
 OWNER: 3M INNOVATIVE PROPERTIES COMPANY P.O. BOX 33427ST.;
 EFFECTIVE DATE: 20030520
 ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNOR:3M COMPANY (FORMERLY
 MINNESOTA MINING AND MANUFACTURING COMPANY), A CORPORATION OF
 DELAWARE;REEL/FRAME:014120/0171

 20030710 US/AS-A
 ASSIGNMENT
 OWNER: 3M INNOVATIVE PROPERTIES COMPANY P.O. BOX 33427ST.;
 EFFECTIVE DATE: 20030520
 ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNOR:3M COMPANY (FORMERLY
 MINNESOTA MINING AND MANUFACTURING COMPANY), A CORPORATION OF THE
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<u>or</u>	or
<u>w/N</u>	within N words
<u>not w/N</u>	not within N words
<u>pre /N</u>	precedes by N words
<u>w/p</u>	in same paragraph
<u>not w/p</u>	not in same paragraph
<u>w/seg</u>	in same segment
<u>not w/seg</u>	not in same segment
<u>w/s</u>	in same sentence
<u>not w/s</u>	not in same sentence
<u>and not</u>	and not

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<u>or</u>	or
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<u>not w/N</u>	not within N words
<u>pre /N</u>	precedes by N words
<u>w/p</u>	in same paragraph
<u>not w/p</u>	not in same paragraph
<u>w/seg</u>	in same segment
<u>not w/seg</u>	not in same segment
<u>w/s</u>	in same sentence
<u>not w/s</u>	not in same sentence
<u>and not</u>	and not

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* Search Connectors

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Syntax Definition

<u>and</u>	and
<u>or</u>	or
<u>w/N</u>	within N words
<u>not w/N</u>	not within N words
<u>pre /N</u>	precedes by N words
<u>w/p</u>	in same paragraph
<u>not w/p</u>	not in same paragraph
<u>w/seg</u>	in same segment
<u>not w/seg</u>	not in same segment
<u>w/s</u>	in same sentence
<u>not w/s</u>	not in same sentence
<u>and not</u>	and not

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